



SEQUENCE LISTING

<110> Norris et al.

<120> TISSUE-SPECIFIC AND PATHOGEN-SPECIFIC TOXIC AGENTS
AND RIBOZYMES

<130> 9175-016-999

<140> 09/548,449

<141> 2000-04-13

<150> 09/291,904

<151> 1999-04-14

<160> 14

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 66

<212> DNA

<213> Artificial Sequence

<220>

<223> LEASHI promoter

<400> 1

gatacctcaga aaattatttt aaatttccaa ttgacattgt gagcggataa caatataatg 60
tgtgga 66

<210> 2

<211> 74

<212> DNA

<213> Artificial Sequence

<220>

<223> Modified rrnb promoter

<400> 2

agaaagcaaa aataaatgct tgacactgta gcgggaaggc gtataatgga attgtgagcg 60
gataacaatt caca 74

<210> 3

<211> 492

<212> DNA

<213> Artificial Sequence

<220>

<223> ANR promoter

<400> 3

actcgccgat catcttcacc atcgcccgca actcctgagg gatatacctcg tcctcctcct 60
ccaccggcac ccccatggta gcggccagct cgcgccctgc ctgggaaagc tgtacatgct 120
gatcgccggc gtcgggtgccg gcggccgggt cttccgcctg ctcggcggtg ccggtccgtg 180
cggccttgcc gtccgcggcg gcgcgcgatg agggcggcac ctgggtggtg atccagccac 240
tgagggtcaa cattccagtc actccgggaa aaatggaatt cttccattgg atcgcccccac 300

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| gcgtcgcgaa | cttgagcccc | cttttcgctcg | ccccttgaca | gggtgcgaca | ggtagtcgca | 360 |
| gttgtttgac | gcaagtcact | gattggaaac | gccatcggcc | tgtcagaaat | ggtcgttgcc | 420 |
| agacctatgg | ctggcaccgc | catcgcggt | gcgttaccct | tactcctgtt | gtgcctttaa | 480 |
| cctagcaagg | ac | | | | | 492 |

<210> 4
 <211> 1113
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> ProC promoter

<400> 4

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| aattcctcga | agtccttgcg | ctgcttgctg | ttcatgatgt | cgtagatcag | cgcattgcacc | 60 |
| tgtttgtgtt | ccagcgggtg | cagggttgatc | cggcgtacat | cgccatccac | ccggatcatg | 120 |
| ggtggcaggc | cggcggagag | gtgcagggtcc | gaagcgccct | gtttggcact | gaaggcgagc | 180 |
| agctcggtaa | tatccatggg | actccccaat | tacaagcaag | caggtagaat | gccgccaaag | 240 |
| ccgccgtctc | ggacaaggaa | aacaccggat | gagccagggt | gcttccagga | cacgcgtggt | 300 |
| gtcctgcgcc | agacgcggaa | cctcgacact | ggaacaggaa | gatggccatc | gaggccggcg | 360 |
| gtttcgaggg | cgtcgagccg | acgccgaccg | cacttccata | ggcgcagggt | aatgtccacg | 420 |
| atagcagaga | atattgcaaa | ggttgcccg | cgcattccgtg | aggcagcgca | agctgcgggg | 480 |
| cgcgatccgg | ccacggtcgg | cctgctcgcc | gtgagcaaga | ccaagcccgc | cgccgcgggtg | 540 |
| cgcgaggcgc | acgccgcggg | ccttcgcgac | ttcggcgaaa | actacctgca | ggaggccctc | 600 |
| ggcaagcagg | ccgaactggc | cgacctgccc | ttgaactggc | acttcacggt | ccccatccag | 660 |
| tcgaacaaga | cgcggcccat | cgccgagcat | ttccagtggg | tgcactcggt | ggaccgggtg | 720 |
| aagatcgcg | agcgctgtc | ggagcaacgc | ccggccgggc | tgccgcccct | gaatgtctgc | 780 |
| ctgcagggtca | acgtcagcgg | cgaagccagc | aagtccgggt | gcgcccccg | ggacctgccc | 840 |
| gccttgggccg | aggccgtgaa | gcaactgccc | aacctccgat | tgctgtggcct | gatggccatc | 900 |
| cccgaaccca | ccgccgaacg | cgccgcgcaa | cacgcccggt | tcgcccgcct | gcgcgaactg | 960 |
| ctgctggacc | tgaaccttgg | cctggacacc | ctgtccatgg | gcatgagcga | cgacctcgag | 1020 |
| gcagccatcg | gcgaagggtc | gacctgggtc | cgcattcggt | ccgccctgtt | cggcgcccgc | 1080 |
| gactacggcg | cgccggcttc | ttgaatgaat | ccc | | | 1113 |

<210> 5
 <211> 66
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> ARC promoter

<400> 5

| | | | | | | |
|------------|------------|------------|------------|------------|------------|----|
| ctagagctat | tgatgtggat | caacattgtc | cactagccgc | tgccgcctaa | tctccagaat | 60 |
| tgtgag | | | | | | 66 |

<210> 6
 <211> 2120
 <212> DNA
 <213> Staphylococcus aureus

<400> 6

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| ttatttagca | ggaataatta | gccagattat | cgagggagtt | ccagggcaat | ccaaacattg | 60 |
| ttatatatgc | atttataaaa | ttttcaagat | aattttattat | tcataccctt | gccctttgtt | 120 |
| tcaaaattat | gccctttttt | tgcccttgga | aacaaccaca | ctcctaaatt | aataggtggt | 180 |
| gtggtttgat | catttataat | ataacataaa | aacaaccacc | cagtaactag | tatgagtggc | 240 |
| gtagcgacta | taacaactct | atgttatcaa | gatatatgta | tatgagtgat | gacaaggaag | 300 |
| atgtctcctg | tgagaccaac | agccagatat | atggcctctt | gccgggctat | atagttcact | 360 |

cctactatat acacatgtaa ttataacata aaaaaataga caagtaccga agtacctgcc 420
 taaataacaa caagattaac atgtgaataa tggaaataaa aagtcagccc gaaggctaac 480
 ttacgaatag atgaaaattt gaacacattg ctgtgtctaa aatgattata gcataaataa 540
 cgaatatttc cagctcgaaa ttaatatatt gtaataataa tattttatat ctttggtaat 600
 aattatttaa ttgatttaca taaataataa ttgtaaaatt aatttgtaat cgattgcaaa 660
 taagttatag gagaaaataa aatgaataaa aaactattaa caaaaacatt gatagcaagt 720
 gcttttagttt taacaacagt aggttcaggt tttcattctt cttcaaatta taatggtatt 780
 aataacggtg aaaaagctga gcaaacgaca gataacgcat tgtggaaaaa tgtaagagac 840
 gctttaaaag acgcgaatat tatcgataaa acagataatg aaaatgtcaa gggtacgtat 900
 aaaatagaaa atgggtggaga aaataccata gaaggaacag ttaatttaga aaatattagt 960
 acttcaaaca atcctaaaat aaaccctcaa aatggtacaa aaattaatat aactagaaaa 1020
 aatccgaact accctaatat tgatgctaata aatacatgga aaaaattacc agaaaaattg 1080
 aaagaaaaaa atatagtggg acaacggcga caatgtttca atcttaagta cagaccctaa 1140
 agatgagact gtattcggtg aagtaggaga agataaaata aacgtaagca atagatacat 1200
 caatcctaaa gatataaatg aattcaaata actaaaaata cttttttccg aggcagatta 1260
 ctctgcctc tttctttgaa cagtgatata ttctgatcta tgtaacactc aattacttca 1320
 gattctttac ctttaacttc ctttaattca tttctctcta tctcctcaaa aagttgtgct 1380
 ttttgatttg tgattggagt tgggcgtttt ttcacgcgtg tgtttcaatt cttttttaag 1440
 gtattctaata tctcttctag tcatatcaat tgttttttta cttctcacct ttagtgaaat 1500
 actcttatcc tttctcttct tgcgttaatg ttgctaatta gtataaaata catgcgcccc 1560
 tatattccaa tggtaggaca ttttaattctg gattttcagc tattttcata aatctattat 1620
 ctgataattt gcttaatcca attttcaagc catagcctaa attccccatc cactaagtca 1680
 ttttgtttca tatggtttta atctacggcc aatctcaaag atagattgac cagcgatggt 1740
 taaagtcata tttcacggat ccacatttac gataaacata tctagttaca caatattatc 1800
 ccttactgca acacaggagc tttctcagcg taaaaaacac cactagaaag tgactttaaa 1860
 gaatataact aattcaaact tatattaatt aatattcttt aaatgaccac tcacactttg 1920
 ttttttgcta tttgtaactt taaaatgttg tttgaaatct atattttttt gatatagctc 1980
 cctatgtaac aaacaatttt taattaatat atattttaa aagtcaattt agagatcggt 2040
 taattcgatt catttaaata atatttatac attctatatg taaacgttta cacatttgaa 2100
 gtaaggagaa ttaaaaatga 2120

<210> 7
 <211> 177
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> P1 pac site

<221> CDS
 <222> (1)...(177)

<400> 7
 cca cta aaa agc atg atc att gat cac tct aat gat caa cat gca ggt 48
 Pro Leu Lys Ser Met Ile Ile Asp His Ser Asn Asp Gln His Ala Gly
 1 5 10 15
 gat cac att gcg gct gaa ata gcg gaa aaa caa aga gtt aat gcc gtt 96
 Asp His Ile Ala Ala Glu Ile Ala Glu Lys Gln Arg Val Asn Ala Val
 20 25 30
 gtc agt gcc gca gtc gag aat gcg aag cgc caa aat aag cgc ata aat 144
 Val Ser Ala Ala Val Glu Asn Ala Lys Arg Gln Asn Lys Arg Ile Asn
 35 40 45
 gat cgt tca gat gat cat gac gtg atc acc cgc 177
 Asp Arg Ser Asp Asp His Asp Val Ile Thr Arg
 50 55

<210> 8
 <211>13
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> IHF binding site

<221> modified_base
 <222> all "n" positions
 <223> n=a, c, g, or t

<400> 8
 aatcaannantta
 17

<210> 9
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DicF1 molecule

<400> 9
 caggcgacag gtatagtttc tctccgattt gtgcctgtcg cctgc

45

<210> 10
 <211> 172
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> ribozyme

<221> modified_base
 <222> all "n" positions
 <223> n=a, c, g, or u

<400> 10
 gcggccgcuc gagcucugau gaguccguga ggacgaaacg guacccggua ccgucagcuc 60
 gagaucucun nnnnnncuga ugaguccgug aggacgaaan nnnnagauc gucgacggau 120
 cuagaucggu ccugaugagu ccgugaggac gaaacggauc ugcagcggcc gc 172

<210> 11
 <211> 242
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> ribozyme

<221> modified_base
 <222> all "n" positions
 <223> n=a, c, g, or u

<400> 11
 aagcuuugga acccugauga guccgugagg acgaaacgau gacauucugc ugaccagauu 60
 cacggucagc agaaugucau cgucgggucc agauccnnnn nncugaugag uccgugagga 120
 cgaaannnnn nnnngcaagg gucugcgcaa cgacgacgau gagguaccac aucgucgucg 180
 uugcgcacug augaggccgu gaggccgaaa ccuugacgc guuccuaugc ggccgcucua 240
 ga 242

<210> 12
 <211> 14
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> consensus ribosome binding site

<221> modified_base
 <222> (8)...(11)
 <223> n=a, c, g, or t

A10
 <400> 12
 ggaggtgnnn natg 14

<210> 13
 <211> 16
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> promoter

<400> 13
 gagtcgacgg atccgg 16

<210> 14
 <211> 17
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> promoter

<400> 14
 tgggggtggg ggtgggg 17